20TETO" 65hT900T

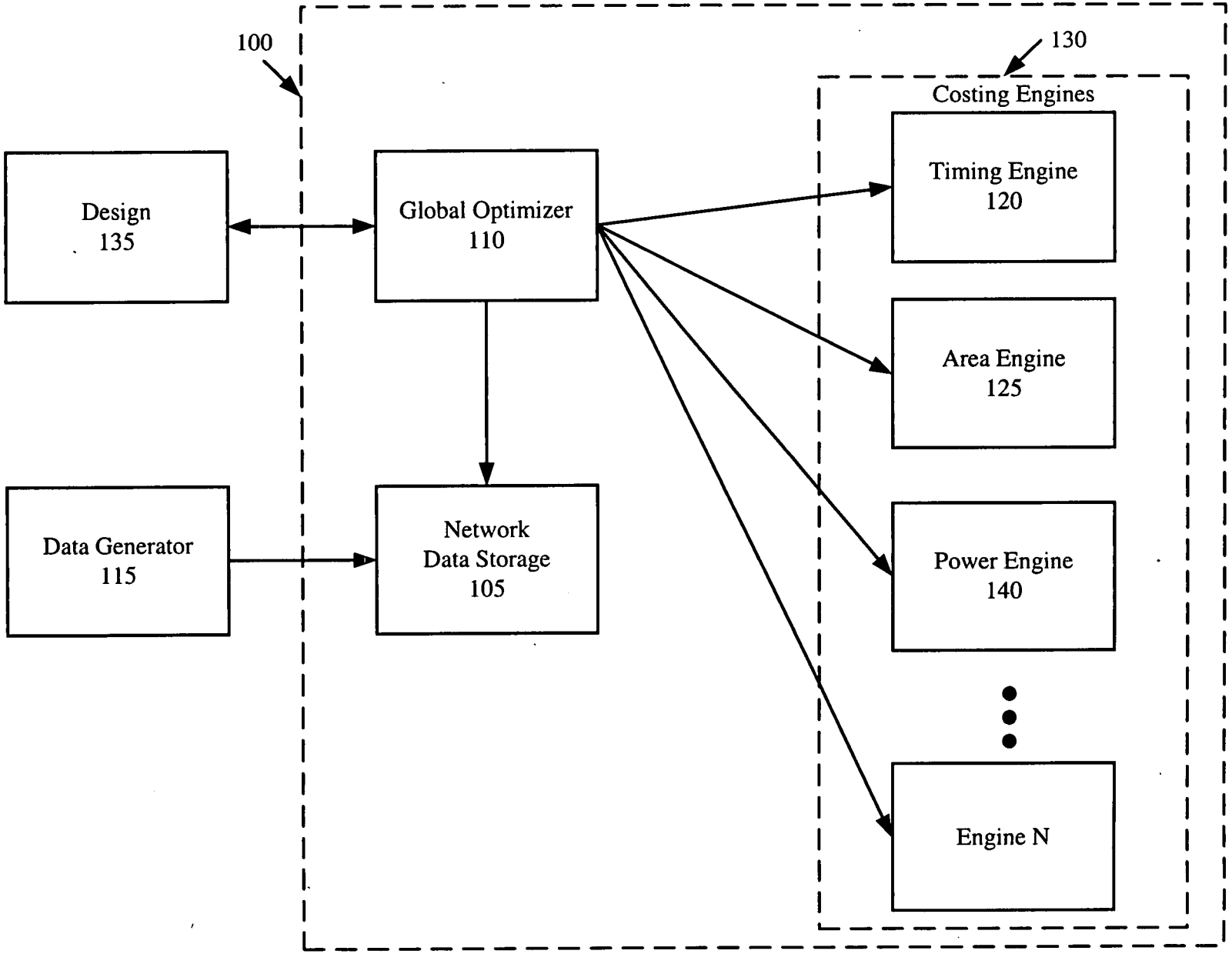


Figure 1

20120345949.1 06 Jul 2007

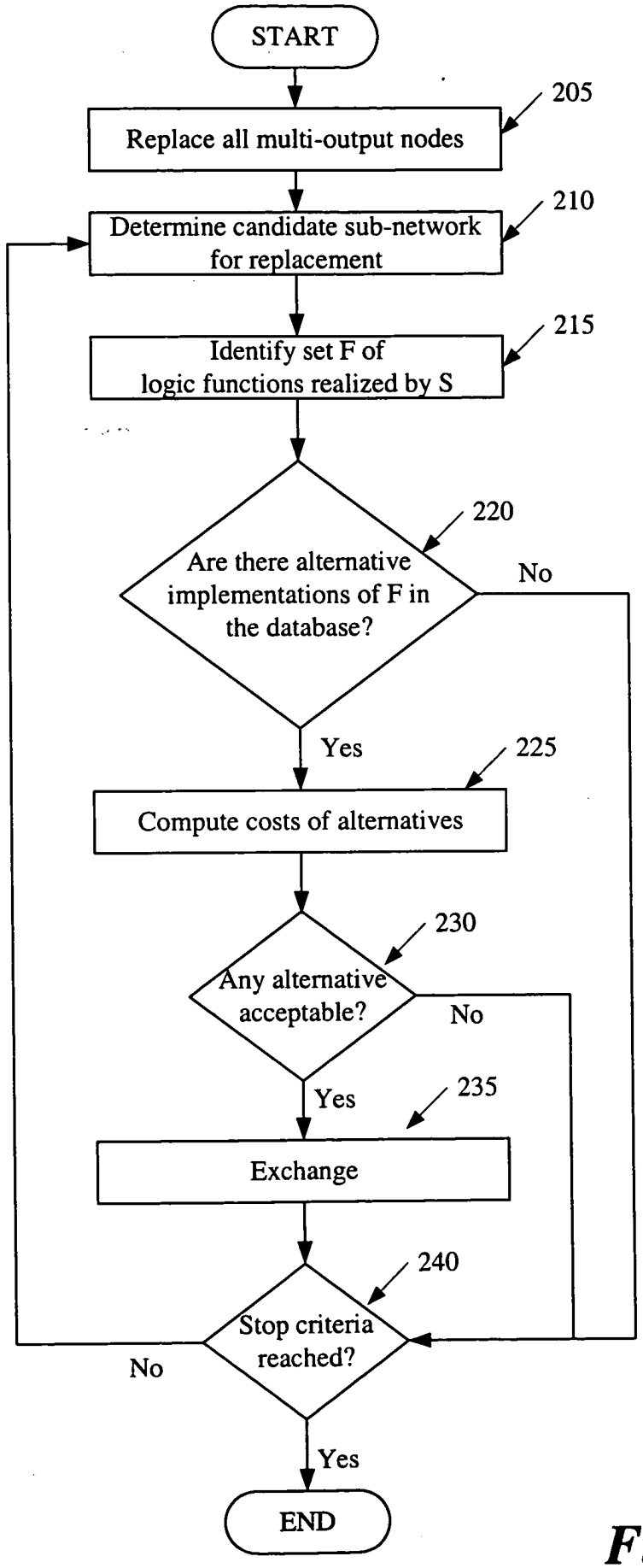


Figure 2

20TETO"6SHT900T

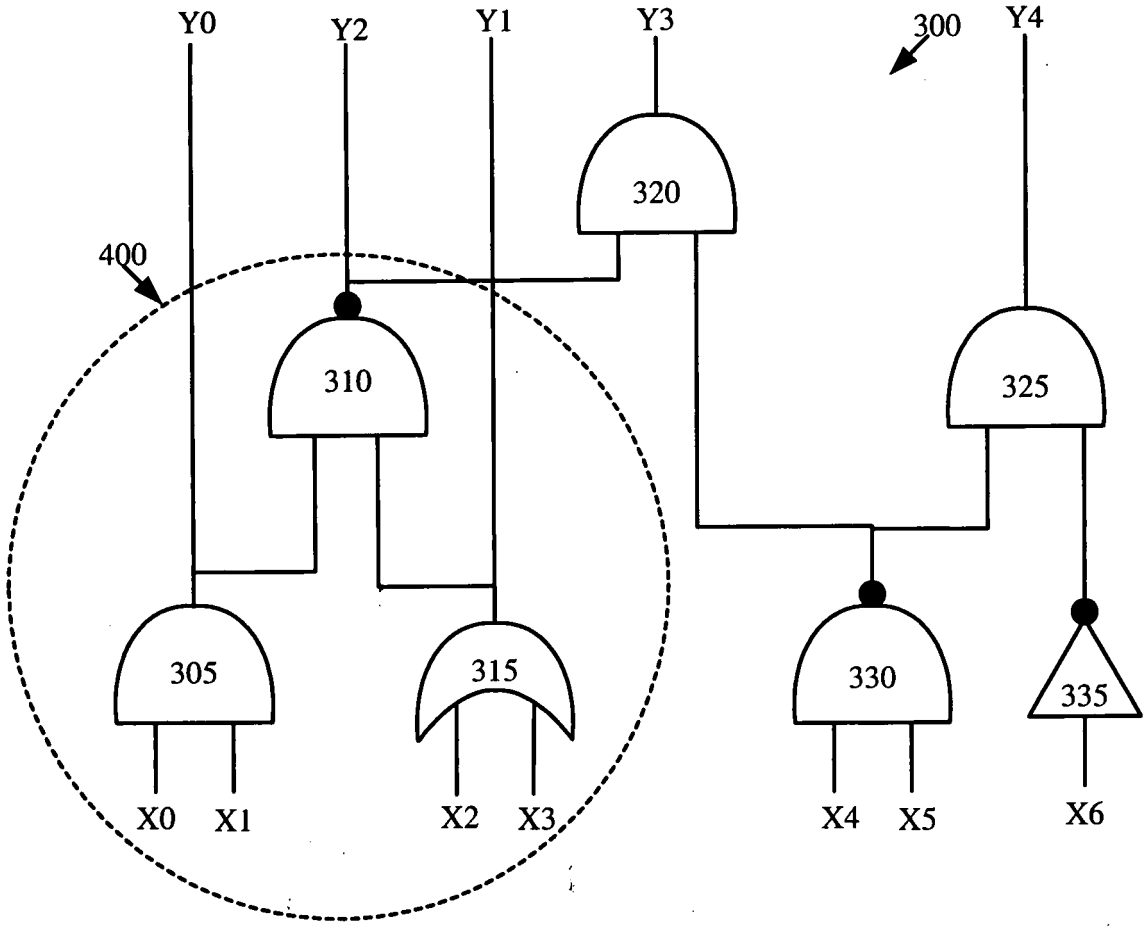


Figure 3

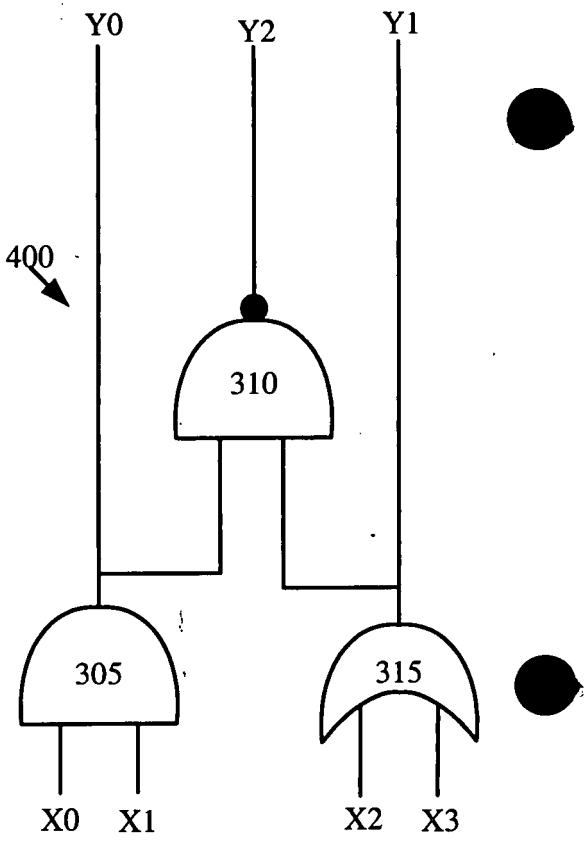


Figure4

20TETO" 65hT90T

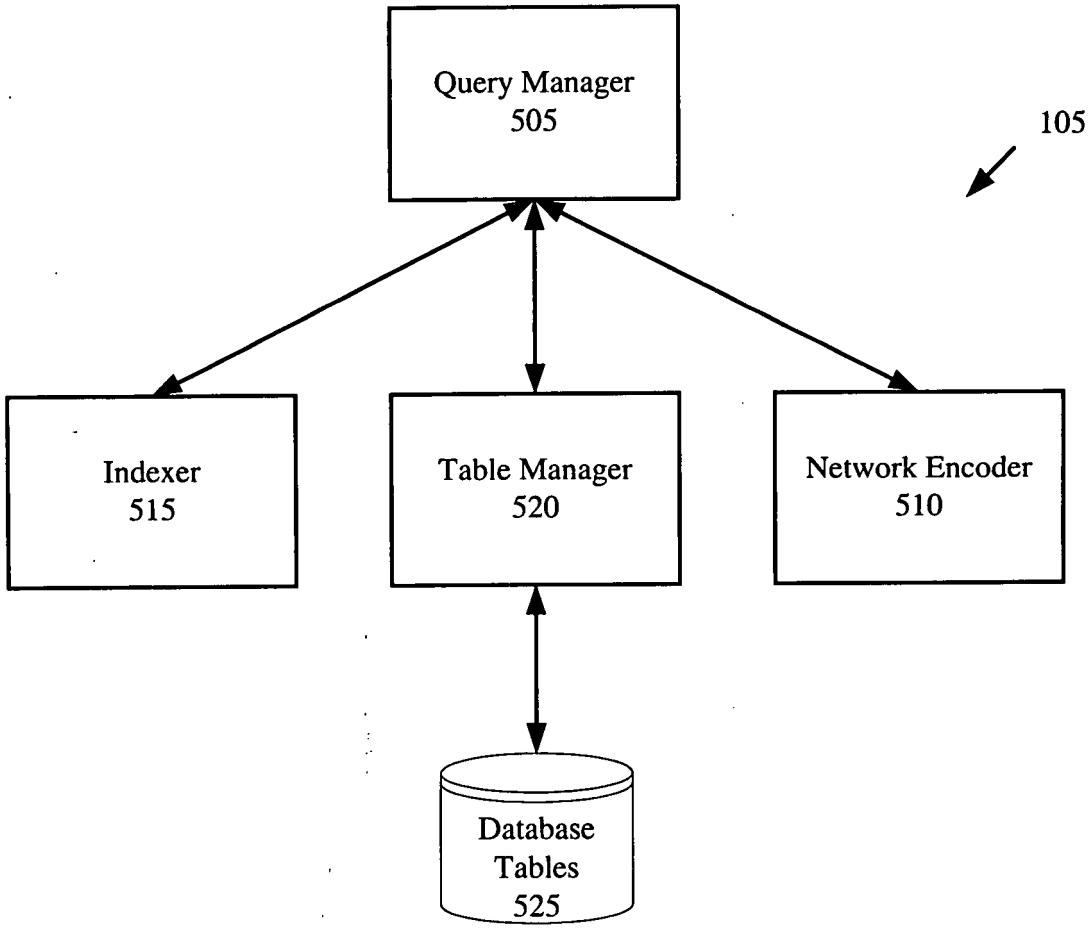


Figure 5

20013102 - 05/14/2004

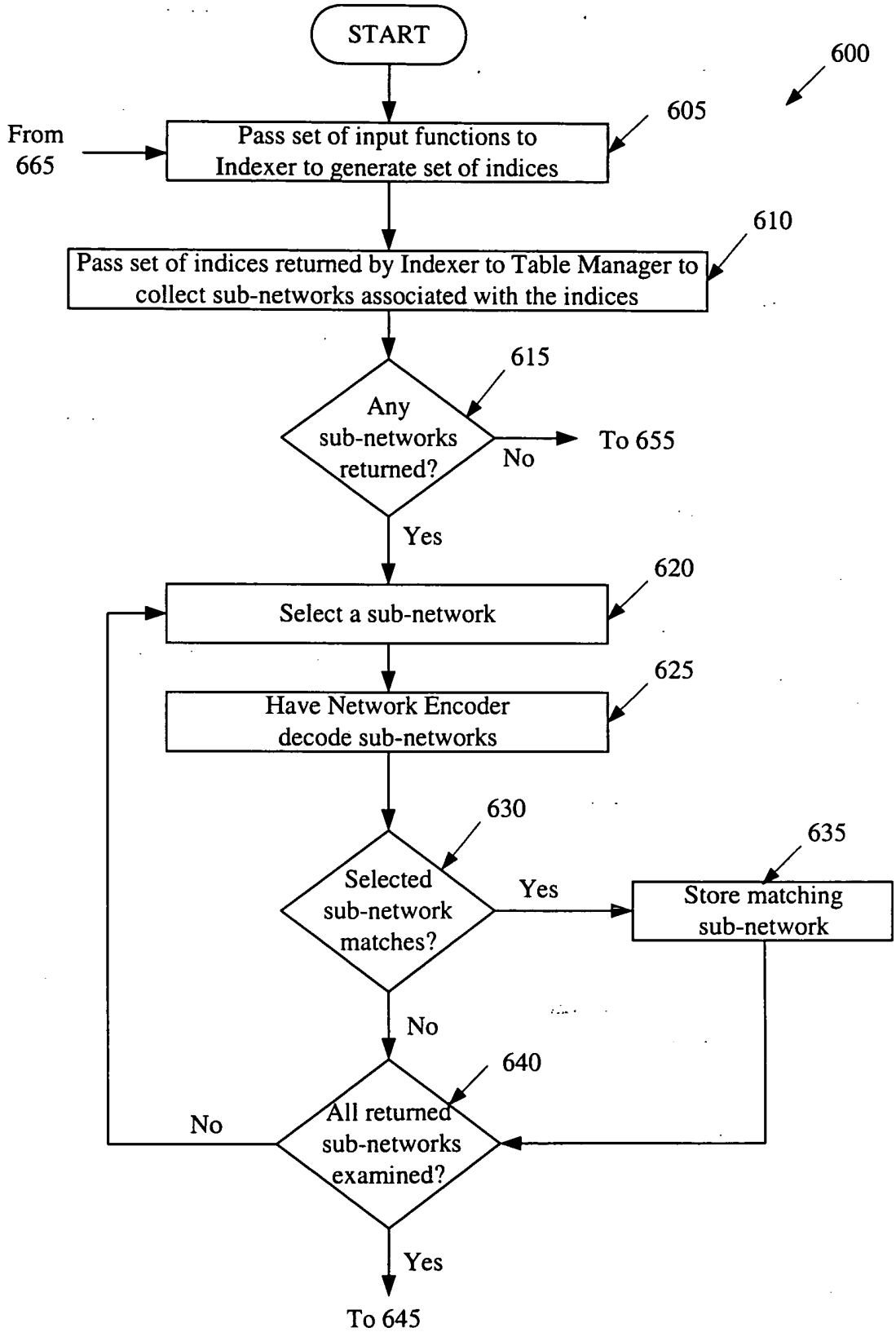


Figure 6A

Figure 6: *Figure 6A* / *Figure 6B*

20150345945 A1 Dec. 3, 2015

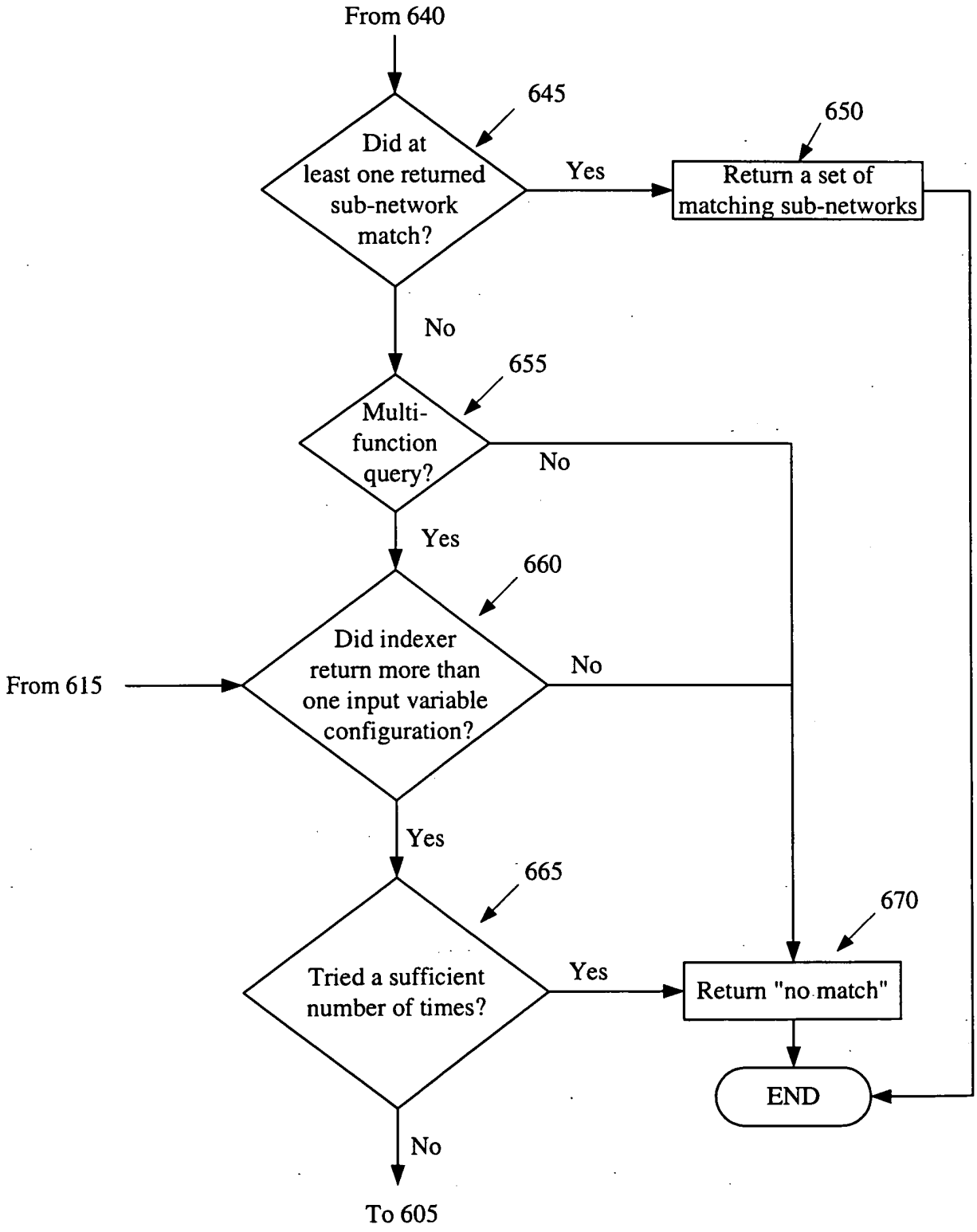


Figure 6B

20TETO" 6SHT900T

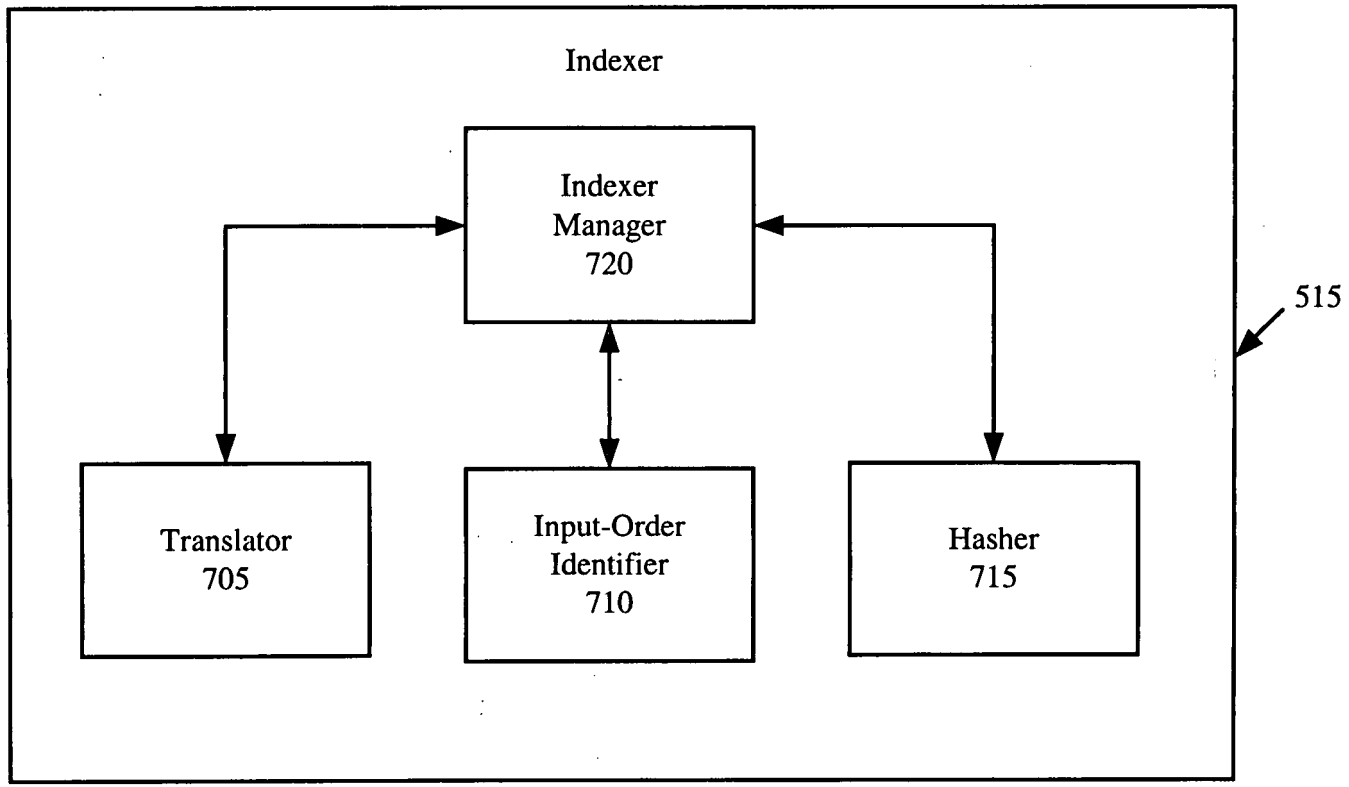


Figure 7

20070145945 - 06-28-2007

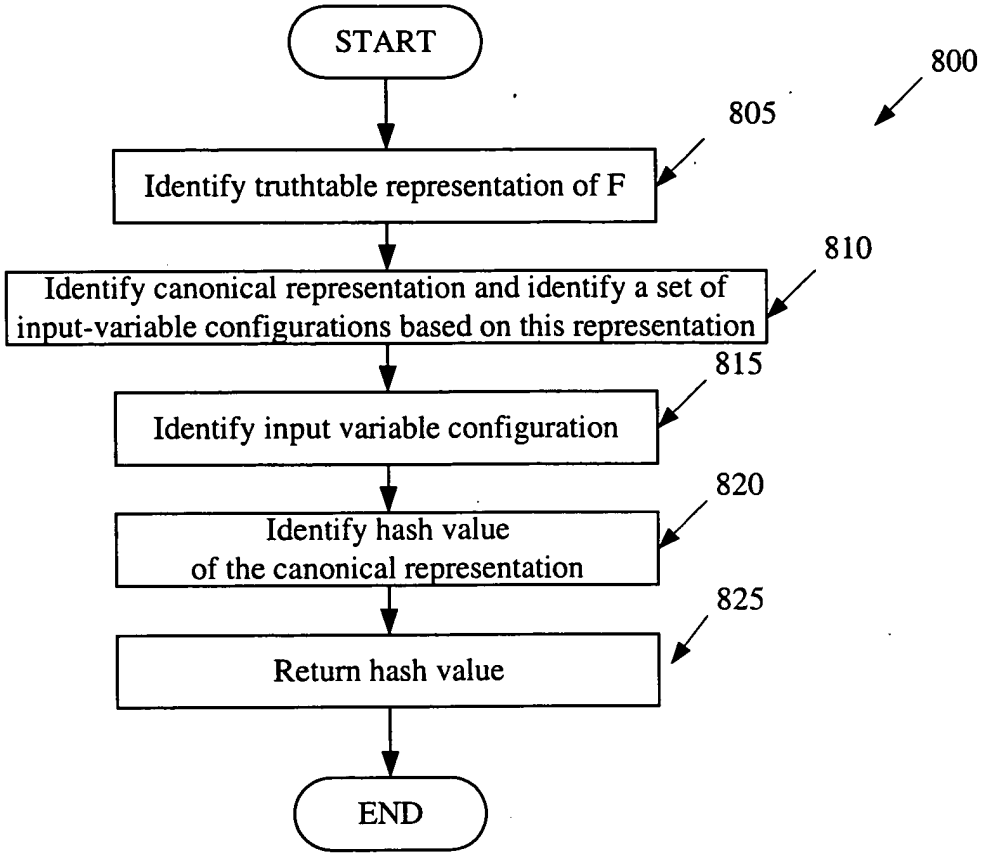


Figure 8

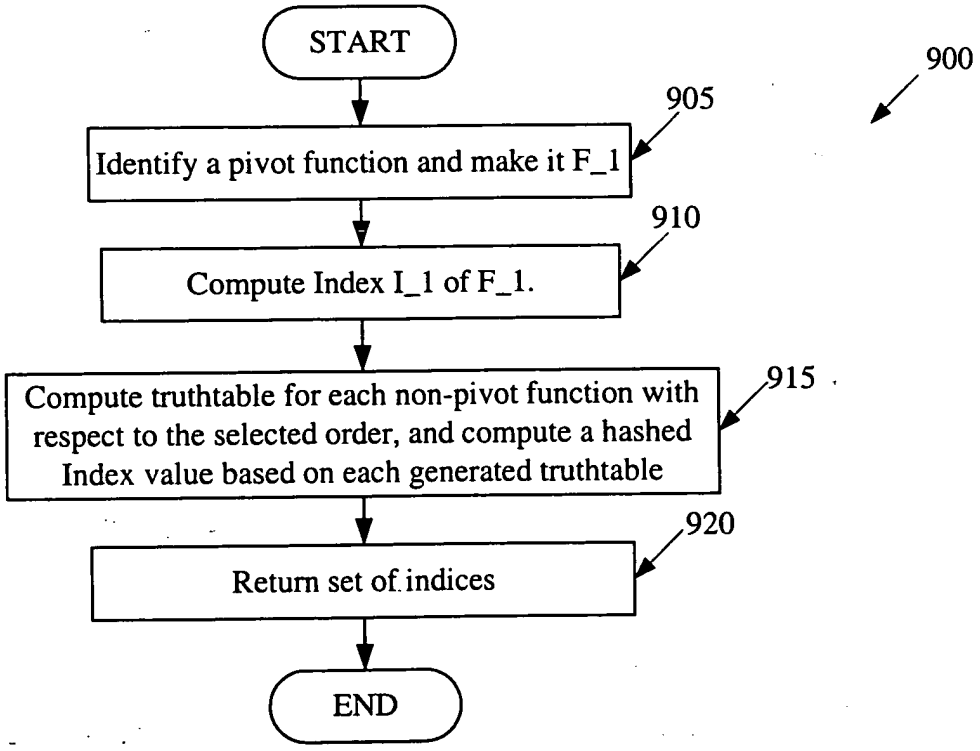
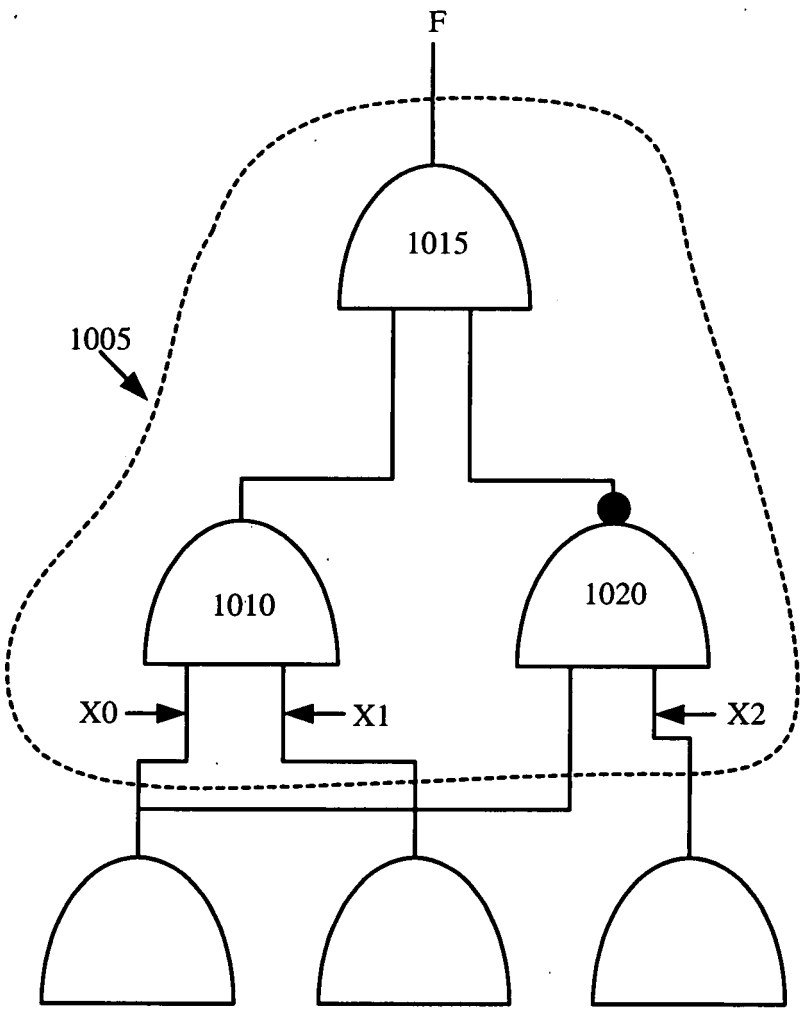


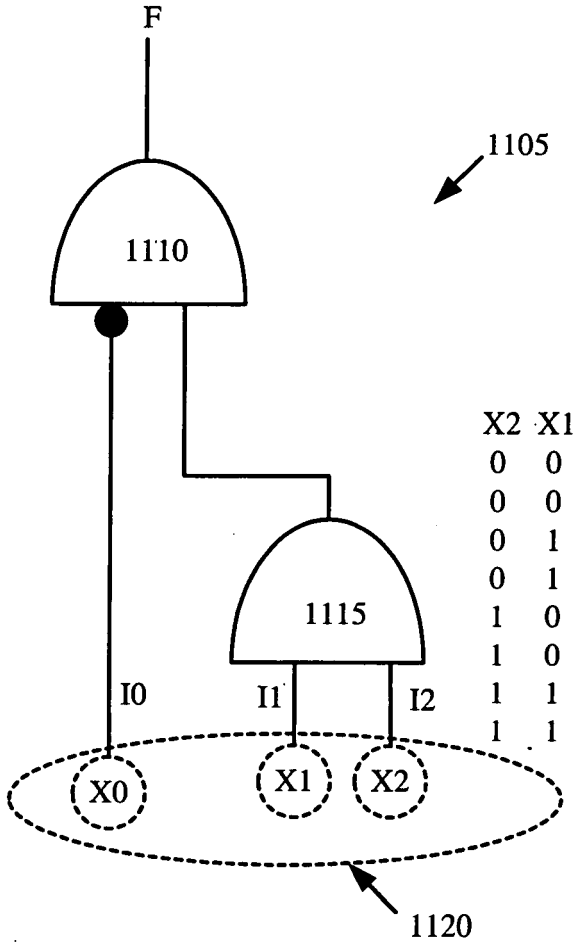
Figure 9

20TETO"65hT90Tf



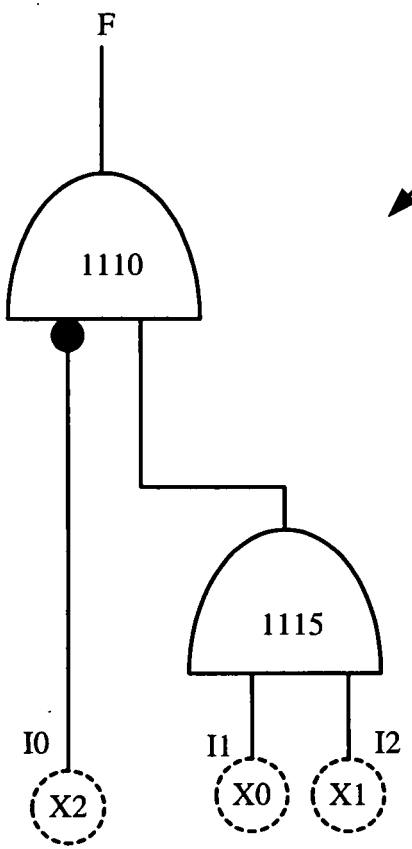
X2	X1	X0	TT
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

Figure 10



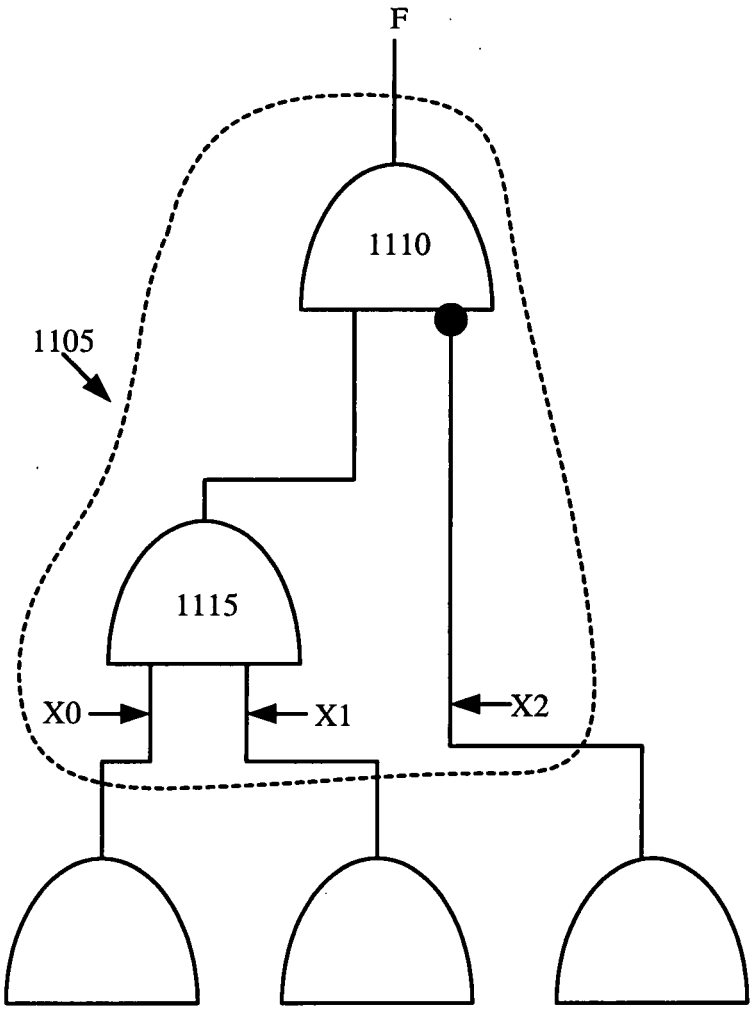
X2	X1	X0	TT
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

Figure 11



X2	X1	X0	TT
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

Figure 12



X2	X1	X0	TT
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	0

Figure 13

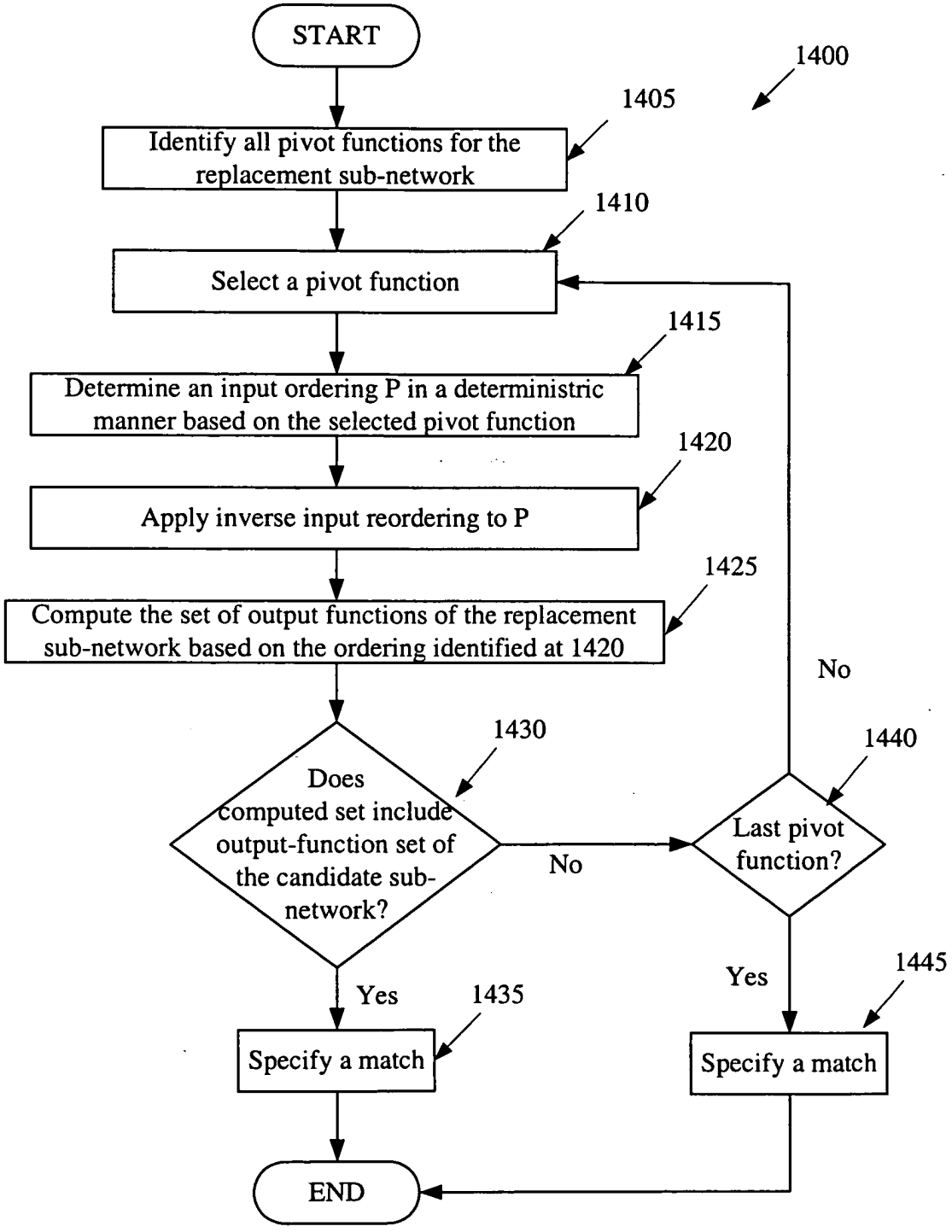

START
1400
1405
Identify all pivot functions for the replacement sub-network
1410
Select a pivot function
1415
Determine an input ordering P in a deterministic manner based on the selected pivot function
1420
Apply inverse input reordering to P
1425
Compute the set of output functions of the replacement sub-network based on the ordering identified at 1420
1430
Does computed set include output-function set of the candidate sub-network?
No
1440
Last pivot function?
No
Yes
1435
Specify a match
Yes
1445
Specify a match
END

Figure 14

20TETO" 6SHT900T

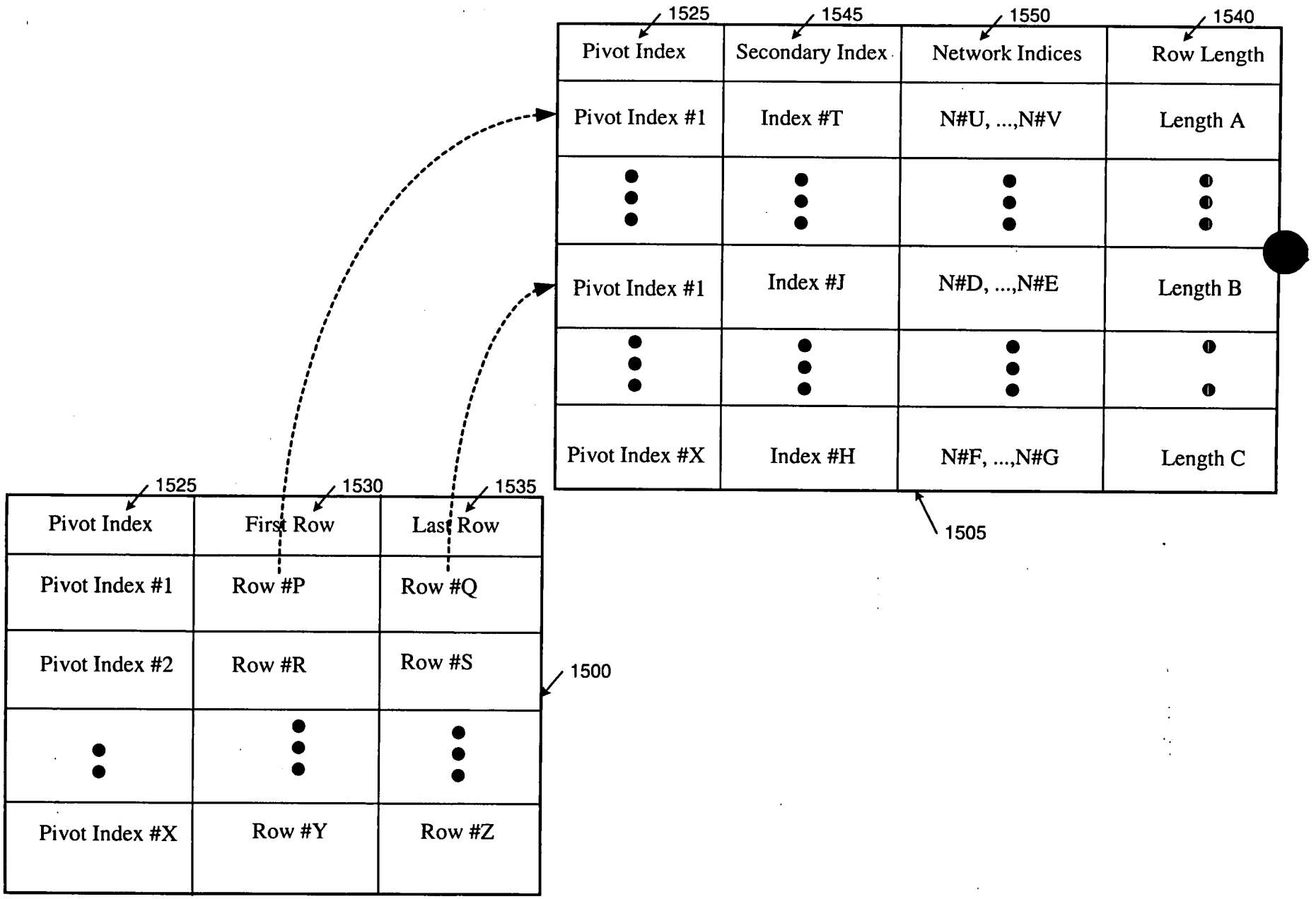


Figure 15

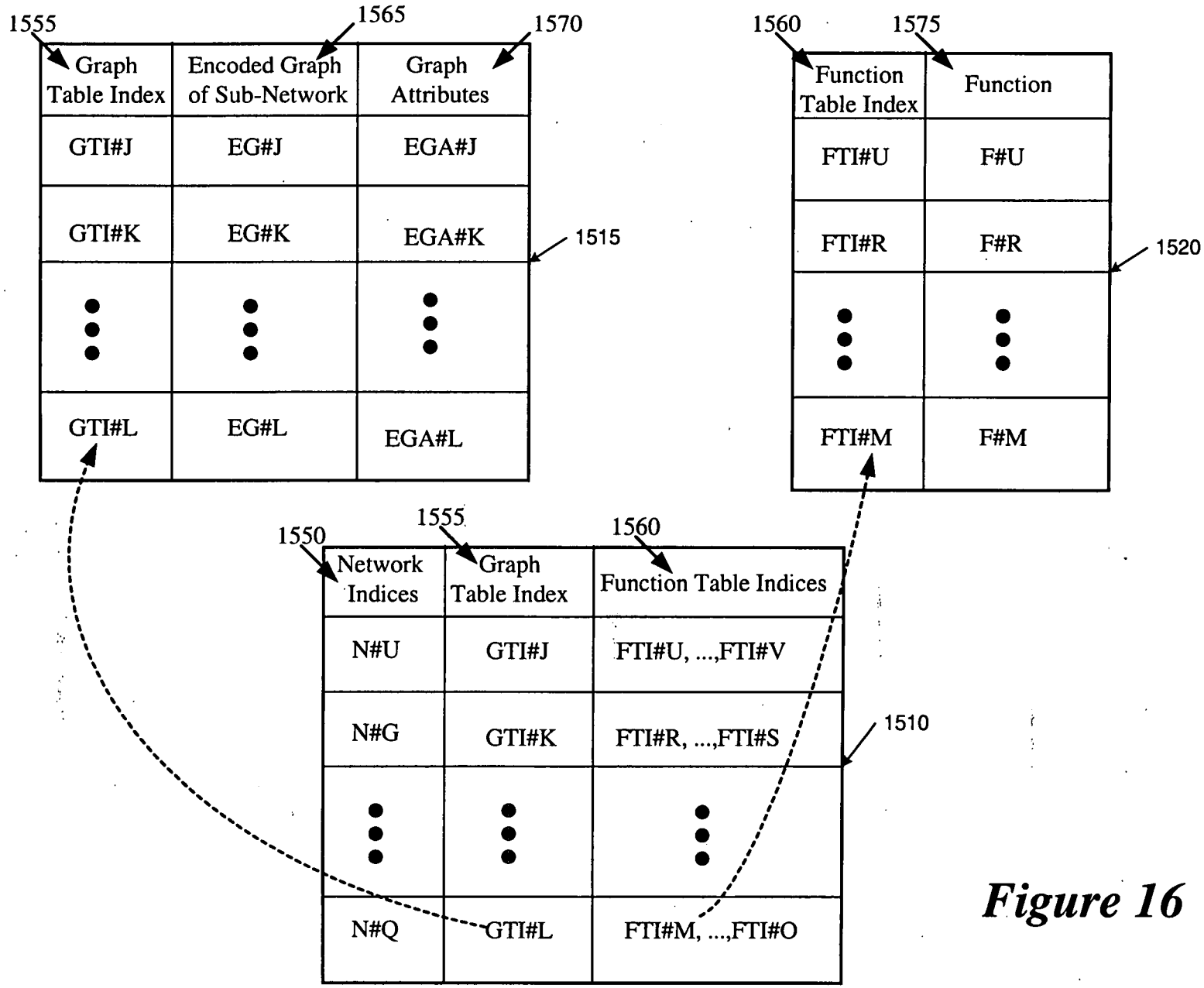

1555
1565
1570
Graph Table Index
Encoded Graph of Sub-Network
Graph Attributes
GTI#J
EG#J
EGA#J
GTI#K
EG#K
EGA#K
1515
GTI#L
EG#L
EGA#L
1560
1575
Function Table Index
Function
FTI#U
F#U
FTI#R
F#R
1520
FTI#M
F#M
1550
1555
1560
Network Indices
Graph Table Index
Function Table Indices
N#U
GTI#J
FTI#U, ...,FTI#V
N#G
GTI#K
FTI#R, ...,FTI#S
1510
N#Q
GTI#L
FTI#M, ...,FTI#O

Figure 16

Attorney Docket No. 45095-0034

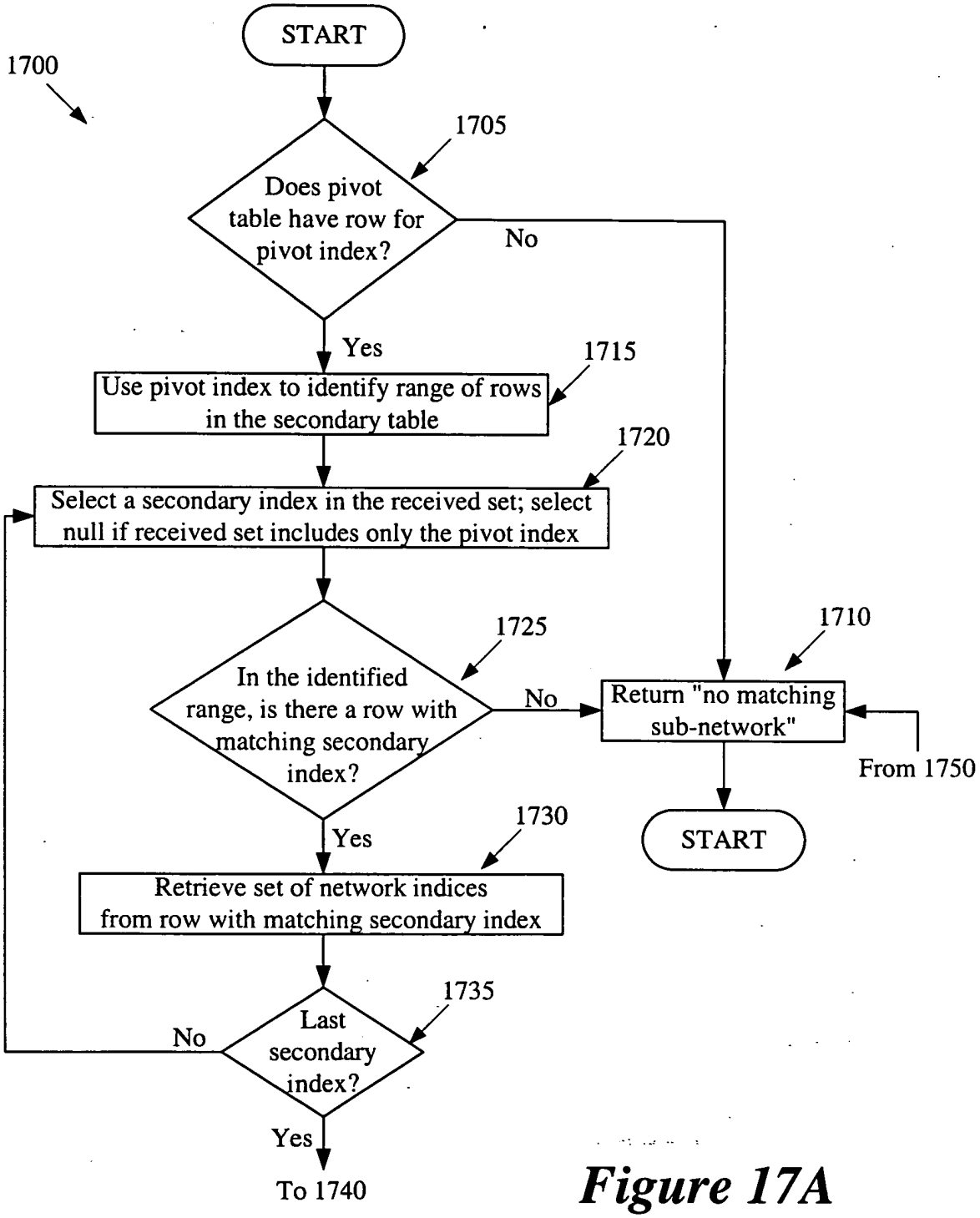


Figure 17A

Figure 17: *Figure 17A* / *Figure 17B*

Docket No. 1005.1450

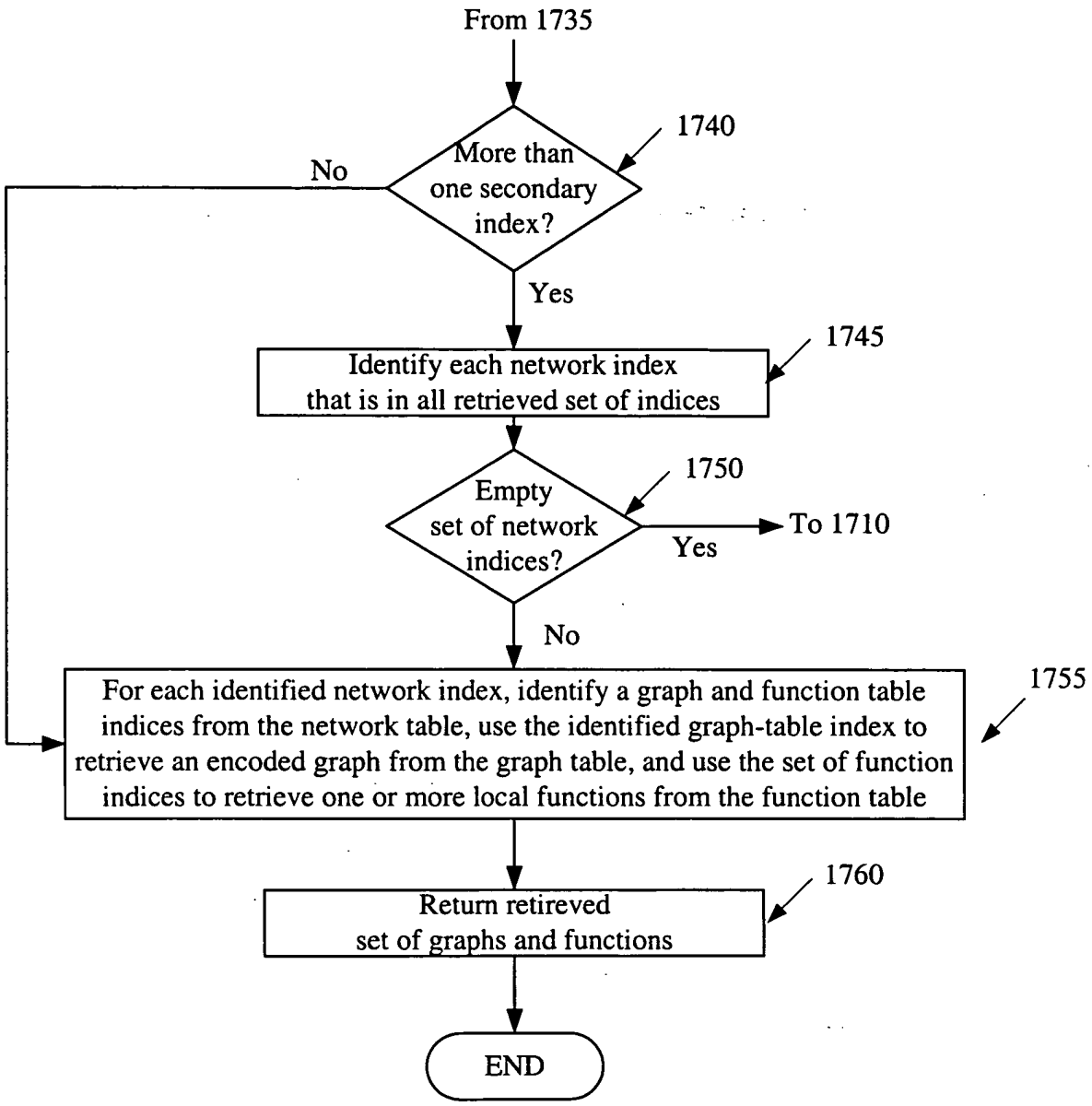


Figure 17B

20TETO" 6SHT300T

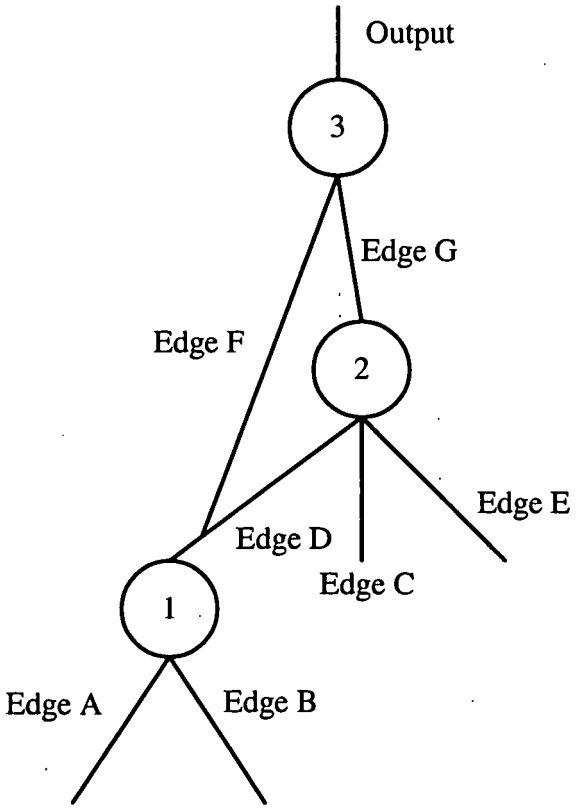


Figure 18

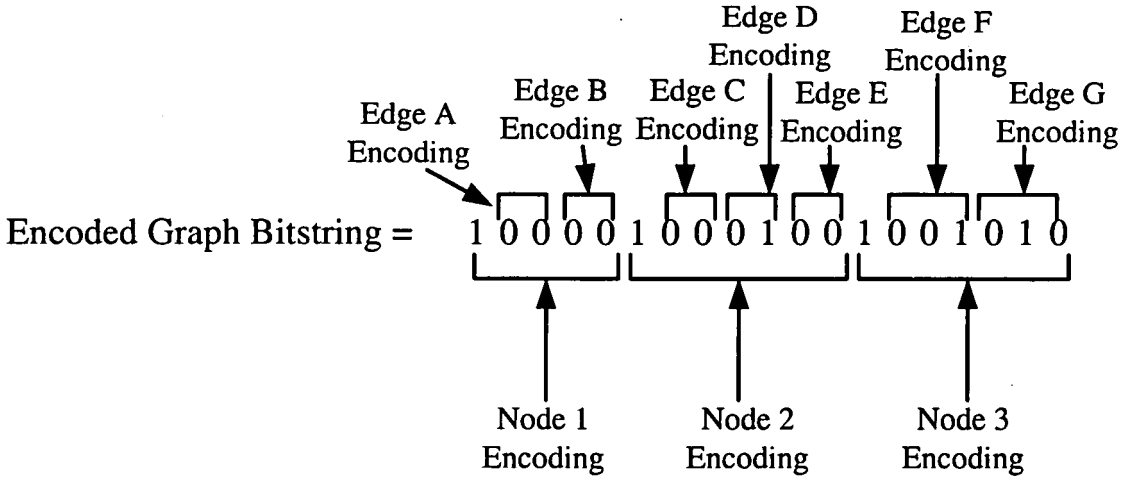


Figure 19

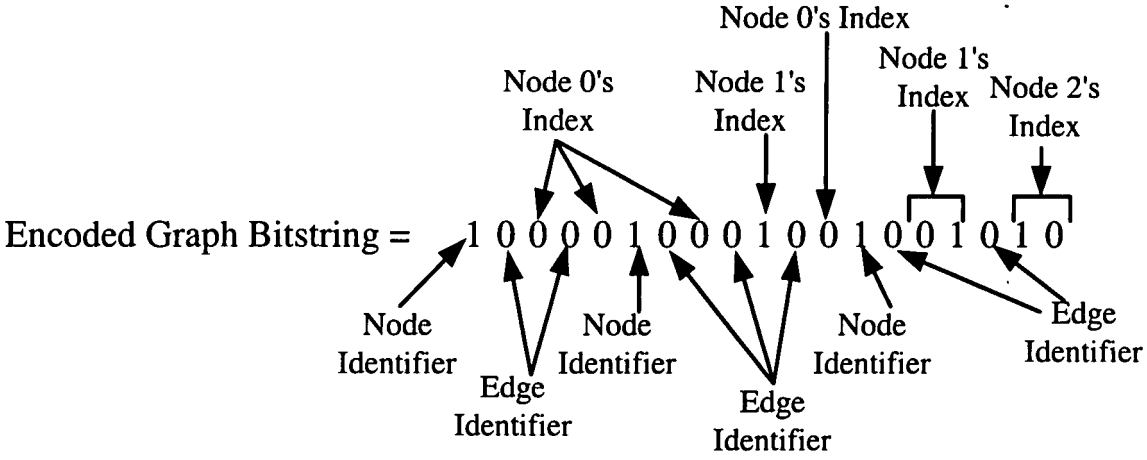


Figure 20

Attorney Docket No. 34501-7005

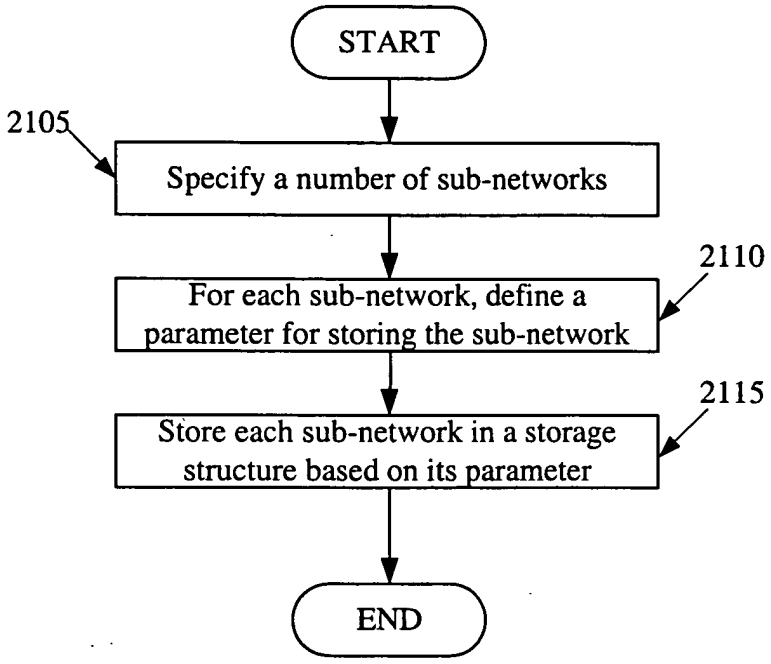


Figure 21

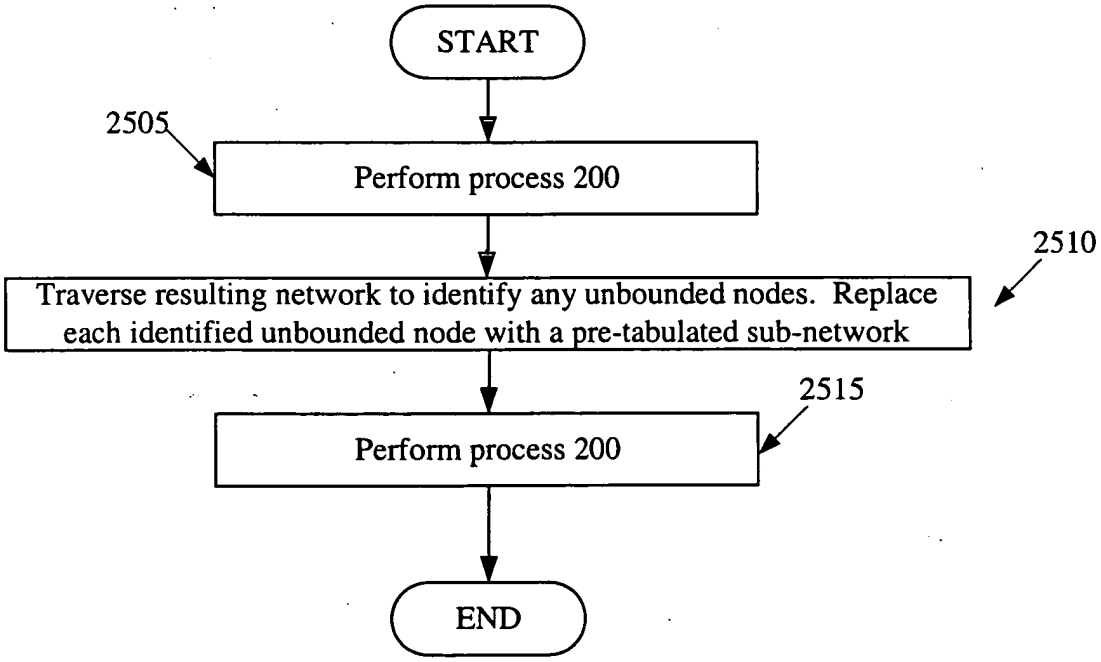


Figure 25

Express Mail Label No. EV 340 645 905 US

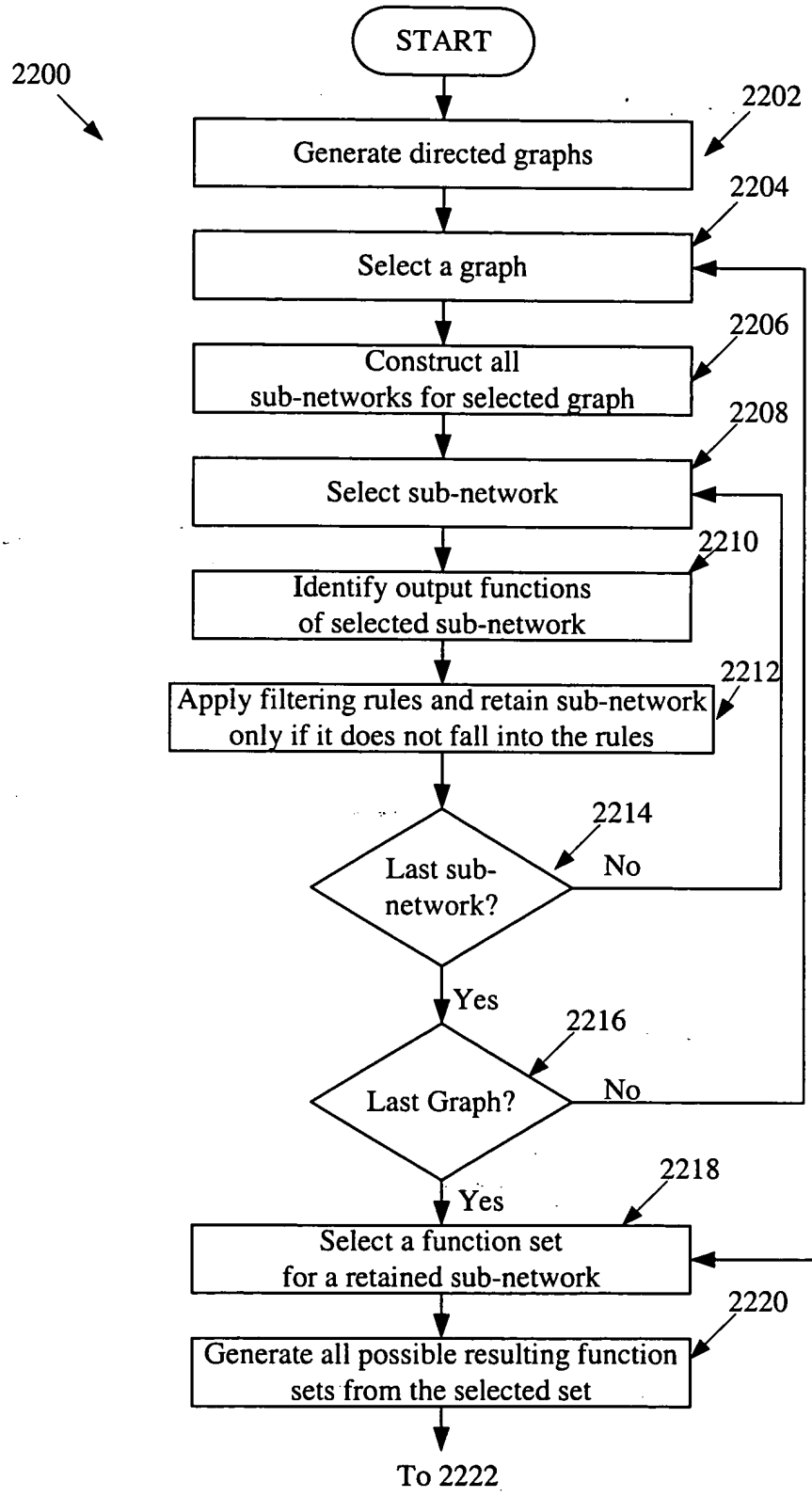


Figure 22A

Figure 22: *Figure 22A* / *Figure 22B* / *Figure 22C*

20150345004

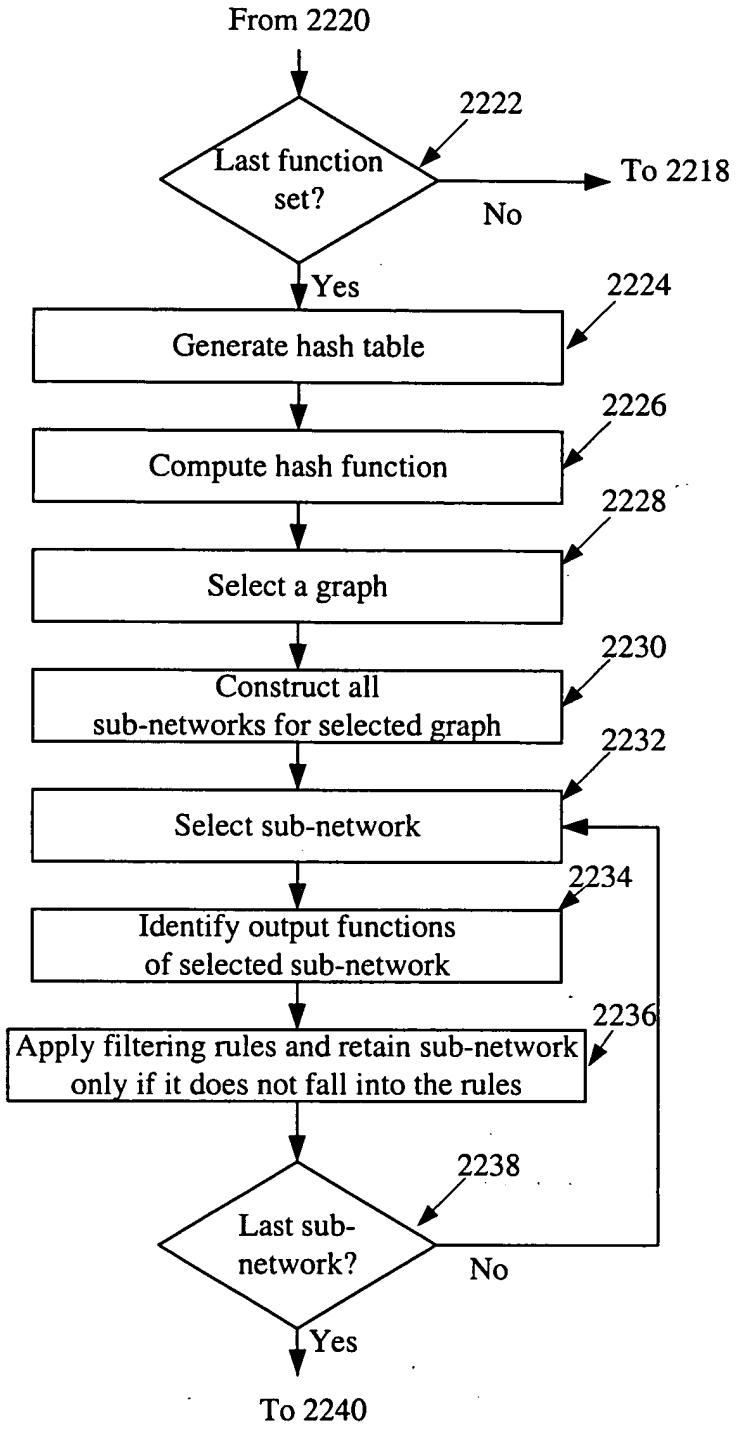


Figure 22B

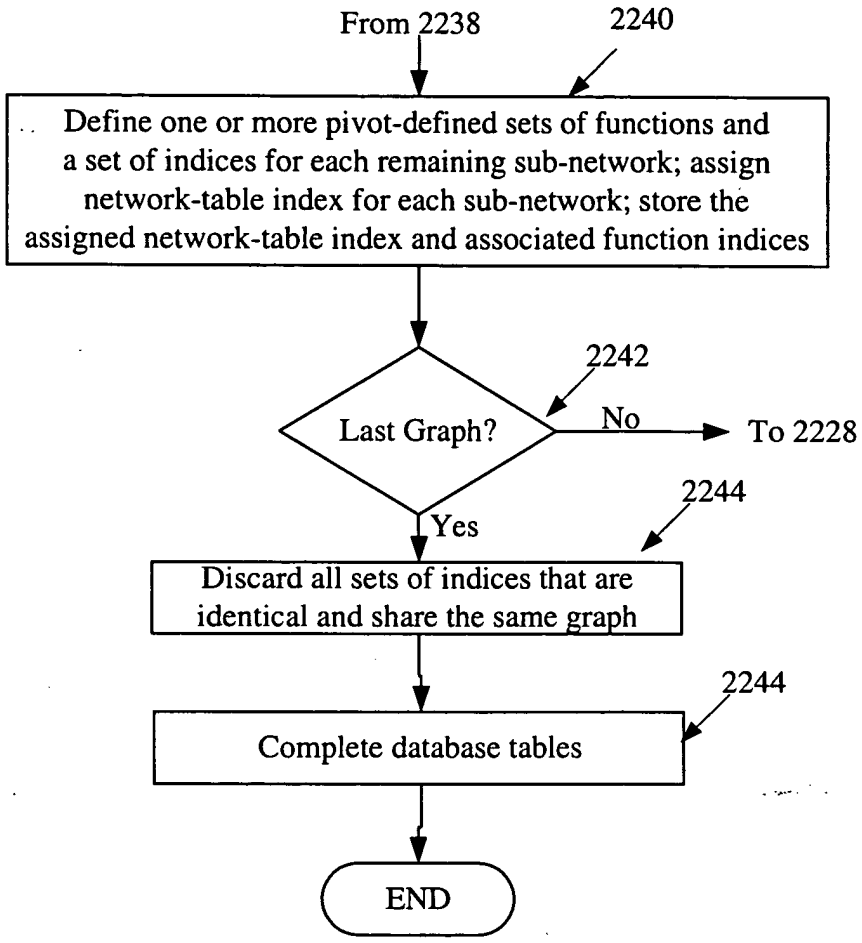

From 2238
2240
Define one or more pivot-defined sets of functions and a set of indices for each remaining sub-network; assign network-table index for each sub-network; store the assigned network-table index and associated function indices
2242
Last Graph?
No
To 2228
Yes
2244
Discard all sets of indices that are identical and share the same graph
2244
Complete database tables
END

Figure 22C

20TETO" 6SHT900T

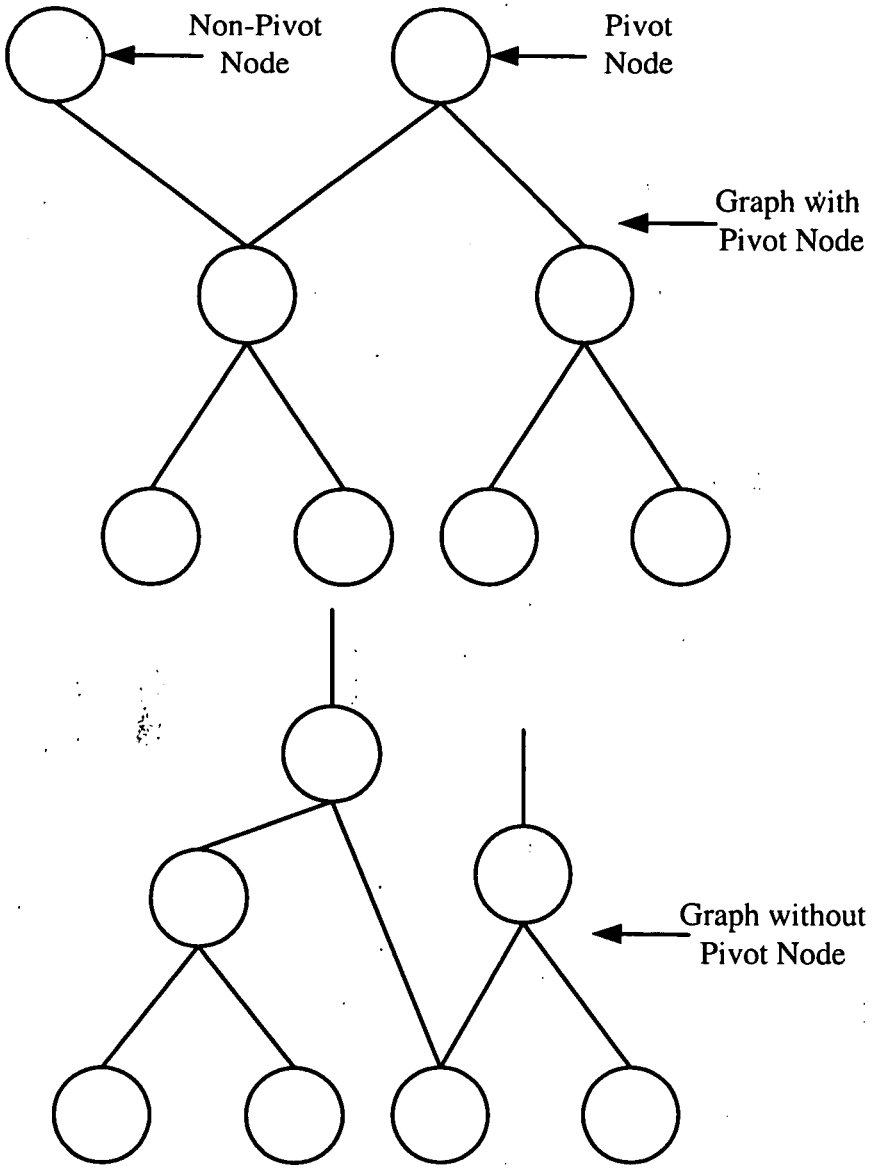


Figure 23

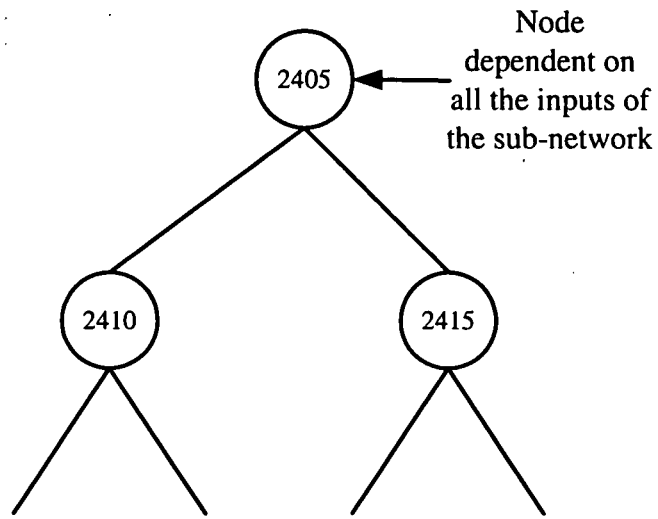


Figure 24

20TETO" 6SHT900T

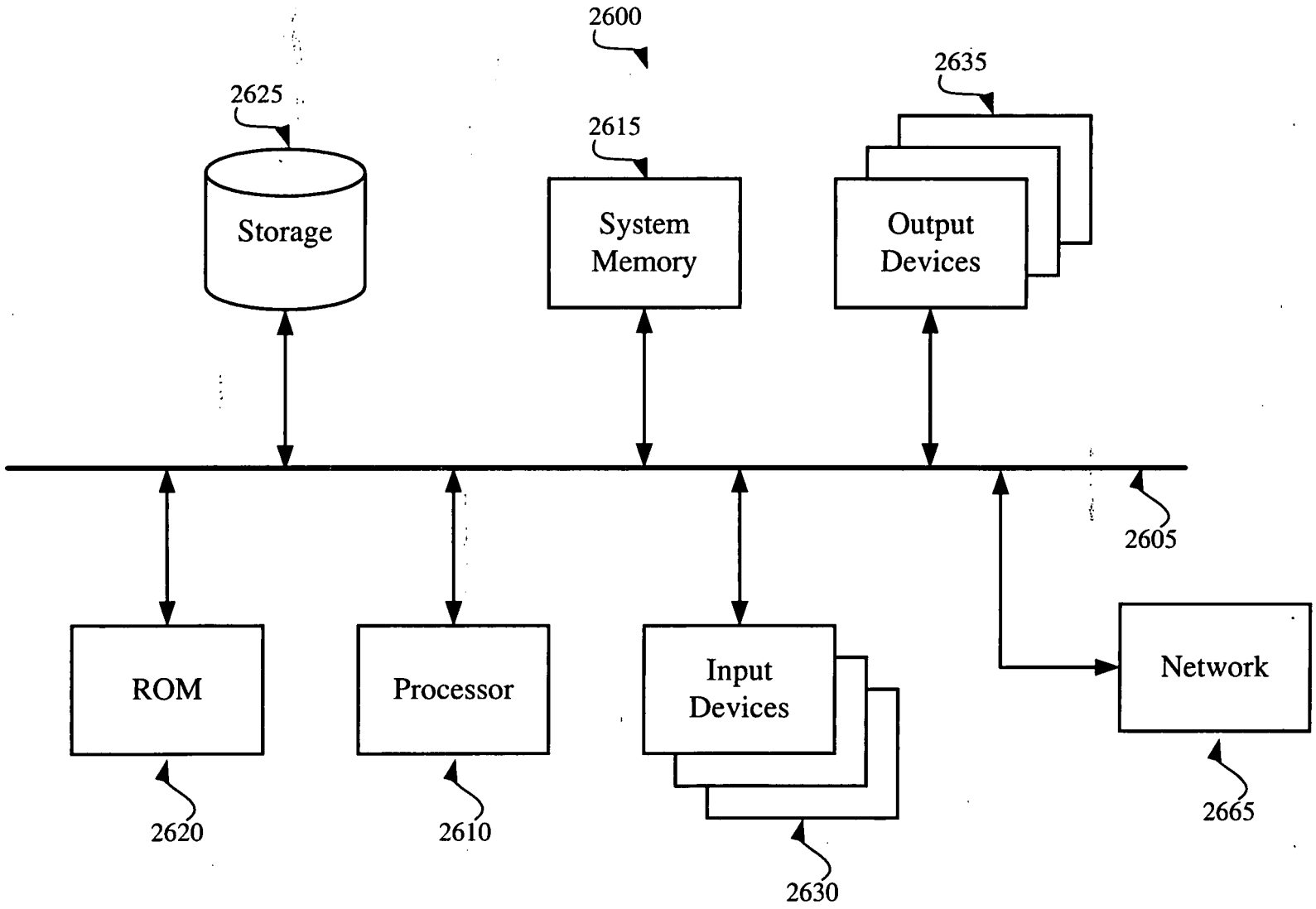


Figure 26